

well seen in the two small species of Chamæleons, viz. *Ch. pumilus* and *Ch. tæniobronchus*, where the lungs have no diverticula and the intestinal tract is nearly straight.

(5) The very general presence of a gubernaculum cordis among the Lacertilia renders its absence in *Zonurus* a matter worthy of comment.

(6) The most important fact, perhaps, which I have been able to ascertain is the persistence in several genera of Lacertilia of considerable remains of the fourth visceral arch (second branchial). This is a fair-sized bar of cartilage which does not make any connection with the copula below. The existence of this arch has, however, been recorded in the adult *Lacerta* by the late W. K. Parker.

(7) The two genera *Varanus* and *Heloderma* (which are quite remote from each other in some structural features) agree with each other in that each bronchus is adherent to its lung for some little distance before it enters it, and emits a short branch to the upper end of the lung before it becomes confluent with the lung.

(8) It is interesting to note the double gastro-hepatic membrane in certain Scincidæ, which is associated with a correspondingly double set of gastro-hepatic veins, as distinctive of that family, though not universal.

4. A List of Moths of the Family *Pyralidæ* collected by A. E. Pratt in British New Guinea in 1902-3, with Descriptions of new Species. By GEORGE H. KENRICK, F.Z.S.

[Received December 8, 1906.]

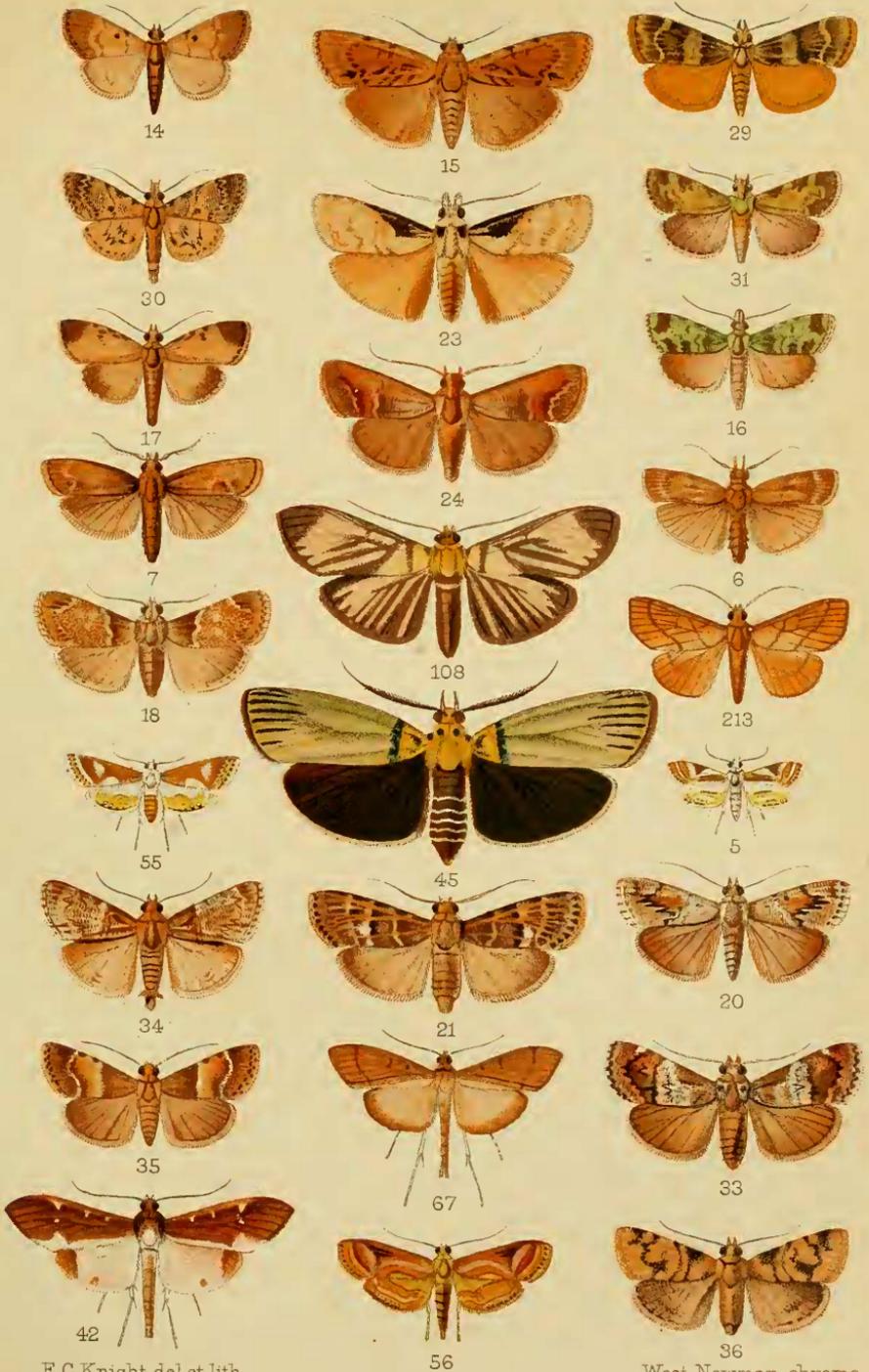
(Plates III. & IV.*)

This collection was made under circumstances mentioned by Mr. Pratt in his book 'Two Years among New Guinea Cannibals,' published in 1905, and beyond the fact that most of the specimens were taken at light very little information can be given.

The country in which the collections were made appears in some of its characters to resemble Darjiling: there are the same precipitous ridges with narrow valleys between, all with a background of snowy mountains of great elevation, and everywhere there is much dense forest. The climate, with its abundant rain in the wet season and brisk air in the dry season, is also similar, while an abundant lepidopterous fauna completes the resemblance.

Although most of the insects were taken at light, in most cases females were well represented and the condition of the insects is extremely good.

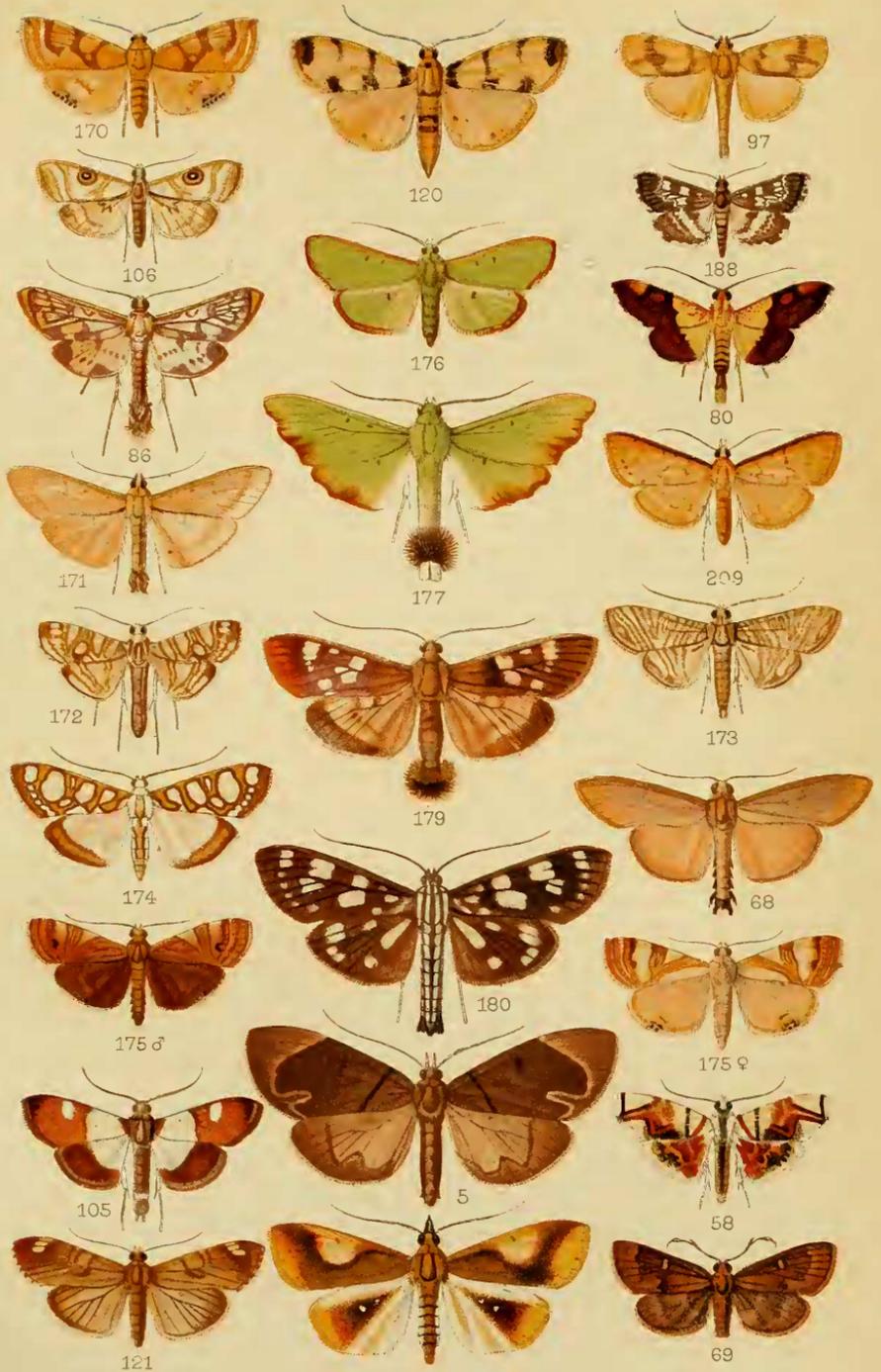
* For explanation of the Plates, see p. 87.



E.C. Knight del et lith

West, Newman chromo.

PYRALIDÆ FROM BRITISH NEW GUINEA.



E.C.Knight del.et lith.

West, Newman chromo

PYRALIDÆ FROM BRITISH NEW GUINEA.

Subfam. SCHENOBIINÆ.

1. CIRRHOCRISTA ÆTHERIALIS Led.
2. C. PULCHELLALIS Led.
3. C. FIGURATALIS Wlk.
4. C. CACONALIS Swinh.

MONODONTA, gen. n.

Palpi porrect, more than length of head, parallel, clothed with hairs, but very thin; antennæ simple; patagia shorter than thorax. Venation of fore wing: veins 2 and 3 before end of cell, 4 and 5 from end of cell, 6 and 7 from end of cell, curved and nearly parallel, 9 and 10 from cell. Hind wing: cell rather short; veins 2 and 3 before end of cell, 4 and 5 from end of cell, 6 from upper angle, 7 anastomosing with 8 halfway between end of cell and end of wing; costa slightly curved; hind margin convex, rounded at angle.

Type, *M. passalis*.

5. MONODONTA PASSALIS, sp. n. (Plate IV.)

Head, legs, thorax, and patagia dark brown, abdomen rather paler. Fore wing pale brown inclined to purplish, an oblique dark line at one-fifth of the length of the wing, followed by a much darker portion outwardly bounded by a curved dark line deeply notched near angle of wing, this is followed by a pale ochreous shade. Hind wing pale ochreous at base, shading into darker towards the margin and having an indented dark line similar to that of the fore wing; fringes darker.

Exp. 50 mm.

Hab. Kebea, one specimen.

Subfam. PHYCITINÆ.

6. PHYCITA DINAWA, sp. n. (Plate III.)

Head, legs, palpi, and body ochreous, darker above. Fore wing marbled with purple, green and gold, the raised scales beyond the cell darker; a curved postmedian line dark margined with paler. Hind wing plain purplish grey. Fringes of fore wing purple; fringes of hind wing paler.

Exp. 24 mm.

Hab. Dinawa, four specimens.

7. ETIELLA FUSCALIS, sp. n. (Plate III.)

Head, legs, palpi, and body brown with numerous pinkish hairs. Fore wing pinkish brown, a darker brown mark two-thirds along the inner margin edged on either side with paler; fringes dull pink. Hind wing smoky grey; fringes same colour.

Exp. 28 mm.

Hab. Dinawa and Kebea, four specimens.

8. HYPSPYLA ROBUSTA Moore.

Subfam. EPIPASCHINÆ.

9. *MACALLA GÆNOCHROA* Hmps. n.10. *M. PICTA* Warr.11. *M. NYCTICHROALIS* Hmps. n.12. *M. SEMINIVEA* Wlk.13. *M. MARGARITA* Butl.14. *M. UNIPUNCTALIS*, sp. n. (Plate III.)

Head, legs, palpi, and antennæ ochreous, tarsi barred with darker. Fore wing reddish ochreous, with wavy antemedian and postmedian lines dark brown, between them is a black spot very near costa; the outer third of the wing is brown and there is a marginal row of black dots. Hind wing much paler, with similar marginal row of black dots and a faint curved median line. Fringes ample, shining brown.

Exp. 28 mm.

Hab. Dinawa, one specimen.15. *M. CARADRINIFORMIS*, sp. n. (Plate III.)

Head, antennæ, palpi, and legs ochreous, tarsi darker; thorax, patagia, and fringes all of the same colour. Fore wing ochreous, with curved and rounded postmedian line paler but outwardly margined with darker; on the costa are three equidistant badly defined, slightly darker markings; from the middle of the base of the wing is a ragged darker streak, and this becomes stronger as it approaches the postmedian line near the end of which is a dagger-like marking. Hind wing uniformly ochreous.

Exp. 32 mm.

Hab. Dinawa and Ekeikei.16. *M. POMALIS*, sp. n. (Plate III.)

Head, thorax, palpi, and processes pale green, tibiæ barred with pale green and brown; eyes black with a network of buff; abdomen green above, buff below. Fore wing apple-green with irregular markings of dark chestnut; a transverse band at one-third length of wing, an irregular divided blotch on inner margin reaching nearly to the angle, and a square-shaped blotch on costa near, but not at, the tip of the wing; a dark spot at end of cell. Hind wing pale brown; fringes paler.

Exp. 24-26 mm.

Hab. Dinawa.17. *M. CURTULALIS*, sp. n. (Plate III.)

Head, antennæ, palpi, and legs pinkish buff, tarsi ringed with darker. Fore wing wainscot-colour with a conspicuous chocolate

tip; three dots on costa before this mark and a dot at end of cell. Hind wing pale clouded on margin with smoky.

Exp. 23-26 mm.

Hab. Dinawa.

18. *M. APICALIS*, sp. n. (Plate III.)

Head, antennæ, and palpi chestnut, thorax and abdomen the same with a few grey hairs; patagia paler. Fore wing; ground-colour chestnut, but the band, which is conspicuously white, is extended in some specimens in a tooth into the hind margin while on the other side it produces a basal blotch. Hind wing fuscous edged with darker. Fringes of both wings pale chestnut.

Exp. 30-34 mm.

Hab. Kebea, Dinawa, Babouni, Ekeikei.

19. *M. TENEBROSALIS*, sp. n.

Head, legs, palpi, and antennæ ochreous; abdomen grey, with dark transverse band on second segment. Fore wing ochreous with basal and apical blotch; the band begins near the base with a dark interrupted line, it is twice as wide on costa as on inner margin and the exterior boundary is an oblique angulated dark line; the interior of the band is reddish ochreous with a dark dot at end of cell. Hind wing smoky. Fringes of both wings ochreous.

Exp. 32-36 mm.

Hab. Kebea, Ekeikei, Babouni.

20. *M. PERDENTALIS*, sp. n. (Plate III.)

Head, legs, palpi, and antennæ pinkish; thorax, patagia, and abdomen ochreous grey, with a slight chestnut band on second segment. Fore wing ochreous grey with dark lines and chestnut patches, basal blotch grey; band very irregular, bounded on inner side by an oblique dark angulated line, on outer side by a strongly marked line, very narrow on inner margin but occupying about one-third of costa and mostly chestnut; beyond the band is a darker cloud towards apex; there is also a dark central dot. Hind wing smoky with darker veins, rather paler towards the base. Fringes of both wings pale grey.

Exp. 30 mm.

Hab. Dinawa, Kebea.

21. *M. PORPHYREALIS*, sp. n. (Plate III.)

Head, legs, palpi, and antennæ pinkish ochreous; thorax grey to reddish. Fore wing mostly dark brown, with whitish and grey interrupted transverse bands; the median band is very indistinct but its outer boundary is marked by a paler narrow angulated band with a tooth in the middle; there is a row of subterminal dark spots. Hind wing straw-colour with darker margin. Fringes of both wings pale.

Exp. 34-36 mm.

Hab. Ekeikei, Kebea, Dinawa.

All the species of *Macalla* enumerated above exhibit considerable colour variation and in most cases a certain amount of sexual variation as well. It is quite possible that when they are better known some may prove to be varieties; on the other hand, it is also possible that some now treated as varieties may turn out to be veritable species.

22. *POLYLOPHOTA BARBAROSSA* Hmps. n.

23. *P. TRUNCALIS*, sp. n. (Plate III.)

Top of head, antennæ, palpi, legs, and thorax pale buff with some black hairs; patagia black. Fore wing buff with a darker cloud near the angle and an interrupted subterminal double line; a subtriangular dark mark extends from near the base along the costa gradually thinning out; in the midst of this is the transverse brush of raised scales nearly black. Hind wing reddish with dense rufous hairs near body. Fringe of fore wing very dark; fringe of hind wing reddish. Tibiæ of hind legs clothed with rufous hairs.

Exp. 38 mm.

Hab. Dinawa.

24. *LOCASTRA CASTANEALIS*, sp. n. (Plate III.)

Head, legs, antennæ, and palpi pale chestnut; tarsi ringed with darker; thorax and patagia chestnut, abdomen paler. Fore wing chestnut, the first third suffused with grey near the inner margin, after this comes a dark transverse angulated line forming the inner boundary of the band, the outer boundary of which is a curved pale transverse line; at the angle of the wing is a conspicuous grey elliptical blotch. Hind wing grey; fringes paler.

Exp. 36 mm.

Hab. Dinawa.

25. *STERICTA SPORETA* Turn.

26. *S. HARRALDUSALIS* Wlk.

27. *S. PRASINA* Wait.

28. *S. DIVITALIS* Guen.

29. *S. FLAMMEALIS*, sp. n. (Plate III.)

Head and palpi greenish, antennæ and legs pink, tarsi barred with darker, thorax and process greenish; body pinkish. Fore wing: ground-colour dark olive-brown; at one-third distance along the costa is a broad transverse band and at one half a distinct angulated but narrower band; these markings and a portion of the wing near the hind margin are of pale olive-green. Hind wing rich golden orange. Fringes of both wings orange-pink.

Exp. 26 mm.

Hab. Ekeikei, one specimen.

30. *S. CORNUCALIS*, sp. n. (Plate III.)

Head, palpi, antennæ, legs, and thorax rufous buff. Fore wing buff with darker and lighter lines and dots; on the costa a dark mark at base and another at one-third length of wing, smaller dots at one half and two-thirds, a cloud at the tip; a wavy subterminal line dark edged with lighter; a dark dot on inner margin near body. Hind wing buff, with a dark wavy line edged with lighter and dark central spot; fringes buff spotted with darker.

Exp. 22 mm.

Hab. Dinawa.

31. *S. SUBVIRIDALIS*, sp. n. (Plate III.)

Head, legs, thorax, abdomen, palpi, and the long processes which extend to the back of the thorax, buff. Fore wing dull brown, with two transverse pale greenish bands parallel to hind margin, the first at one-half and the second at two-thirds length of wing; below the cell these bands run into a large patch of the same colour which continues along two-thirds of inner margin and projects a little beyond the second transverse band. Hind wing dull brown; fringes same colour.

Exp. 28 mm.

Hab. Kebea, Dinawa, Babouni.

32. *ORTHAGA VITIALIS* Wlk.33. *O. POLYCHROALIS*, sp. n. (Plate III.)

Head, antennæ, legs and thorax chestnut inclining to pink; abdomen rather paler, with no band on second segment. Fore wing greenish with chestnut patches; basal blotch mingled olive and chestnut, with raised scales in longitudinal dark line, then a vertical line edged outwardly with white; the band is badly defined but there is an angulated thin line forming the external boundary; the remainder of the wing is greenish white, with a chestnut apical patch. Hind wing pale buff. Fringes of both wings pale; underside of costa of both wings broadly red.

Exp. 30 mm.

Hab. Dinawa.

34. *O. CHIONALIS*, sp. n. (Plate III.)

Palpi simple in both sexes, reaching vertex of head; antennæ of male ciliated and with a process consisting of an immense tuft of scales reaching over part of thorax; in the female this is very small.

Head, palpi, antennæ, and legs pinkish buff, legs ringed with paler at the joints; thorax, patagia, and process greenish; abdomen greyish ochreous. Fore wing: ground-colour dark olive-brown, basal patch with raised scales both light and dark followed by an oblique narrow white band, then follows the main band, in some

specimens suffused with white and bounded by a curved paler line after which is a darker cloud. Hind wing fuscous; fringes of both wings paler.

Exp. 38-39 mm.

Hab. Ekeikei, Babouni, Kebea, Dinawa.

35. *ORTHAGA FUSCOFASCIALIS*, sp. n. (Plate III.)

Antennæ of male ciliated, with process roughly scaled and reaching thorax; female without process.

Head, palpi, antennæ, legs, and top of thorax ochreous; the male has a dark collar to thorax, absent in the female; abdomen ochreous. Fore wing: ground-colour fuscous; a dark basal blotch occupies one-third of the wing; the band is bounded on the inner side by a narrow vertical white band, this is followed by pale ochreous with dark dots on the costa and is bounded outwardly by a dark wavy interrupted line; the remainder of wing of the ground-colour with a row of subterminal triangular dots. Hind wing fuscous; fringes paler. In some specimens the band is suffused with chestnut.

Exp. 26-30 mm.

Hab. Dinawa and Kebea.

36. *O. COLUMBALIS*, sp. n. (Plate III.)

Head, legs, antennæ, thorax, and body dove-colour; legs ringed with black. Fore wing dove-colour, on costa at base a triangular black patch, the apex of which reaches the inner margin as a thick black line and forms the inside vertical boundary of the band; the band itself is dove-colour, but there is a thin curved black line parallel with inside boundary and an irregular black patch on vein 2; the outer boundary of the band is a curved thick black line, and beyond this on the costa is an anteapical black patch. Hind wing dove-colour; fringes paler. Underside smoky with whitish dots on costa.

Distinct from *seminivea* in absence of white thorax and black collar.

Exp. 36 mm.

Hab. Kebea, one specimen.

37. *TERMIOPTYCHA CYANOPA* Meyr.

Subfam. ENDOTRICHINÆ.

38. *ENDOTRICHA ALBICILIA* Hmps.

39. *E. PERSICOPA* Meyr.

40. *COTACHENA TRIVITRALIS* Hmps.

41. *C. ALUENSIS* Butl.

TIPULIFORMA, gen. n.

Fore wing: vein 2 present; veins 3, 4, 5 from lower end of cell; veins 6, 7 from upper end of cell; vein 7 parallel and close to 8 for one-third of its length, then turning down; vein 9 from middle of cell. Hind wing: veins 7 and 8 anastomosing. Proboscis well developed; palpi upturned reaching vertex of head, densely clothed with hairs; antennæ simple, three-quarters of the length of fore wing. Abdomen projecting for half its length beyond hind wing; legs long and slender, with small spurs on the tibiæ; fore tarsi somewhat hairy. Fore wing long and narrow; hind wing subquadrate.

42. *T. TRIANGULALIS*, sp. n. (Plate III.)

Thorax, head, and palpi grey; patagia whitish; underside quite white; abdomen grey above, white beneath, tuft white; eyes very prominent. Fore wing dark smoky-grey shot with reddish; costa narrowly buff for two-thirds of wing; a small basal spot white, followed by three other white dots along the costa; the inner margin with a narrow pale streak expanding into a quadrangular blotch at the angle. Hind wing white; a marginal dark band tapering from apex of wing and interrupted by a tooth in the middle. Fringes of both wings dark at apex and white at angle.

Exp. 36 mm.

Hab. Dinawa.

Subfam. PYRALINÆ.

43. *VITESSA SURADEVA* Moore.44. *V. ZEMIRA* Cram.45. *V. GRISEATA*, sp. n. (Plate III.)

Head, thorax, and patagia pale orange, with four black dots across the front of thorax; abdomen black ringed with yellow; palpi black. Fore wing pale greenish grey; veins near the hind margin tinged with black; a vertical metallic blue streak across the base of the wing and the space between this and the body dull orange, with one blue spot and a blue oblique streak below it; fringes same colour as fore wing. Hind wing black; fringes paler.

Exp. ♂ 51 mm., ♀ 66 mm.

Hab. Dinawa.

46. *HYPSOPYGIA POSTFLAVA* Hmps.47. *SACADA INORDINATA* Wlk.48. *S. NIGROPUNCTATA* Hmps.

Subfam. HYDROCAMPINÆ.

49. *CYMORIZA USTALIS* Wlk.
50. *AULACODES PLICATALIS* Wlk.
51. *A. GONIOPHORALIS* Hmps.
52. *A. ACROFERALIS* Hmps.
53. *A. DIOPSALIS* Hmps.
54. *A. TRICHOCERALIS* Hmps.
55. *A. LUNALIS*, sp. n. (Plate III.)

Head, thorax, and patagia buff; first segment of abdomen brown followed by a pale band, the remainder golden. Fore wing dark brown; a pale brown stripe runs from the body and reaches the costa about midway; it is then continued as a fine line along the costa to the apex; along the inner margin is a whitish stripe with an angulated upward projection towards the middle of the wing; on the disc is a crescent-shaped white mark and this is followed by a white subterminal line with an orange band beyond; fringes pale. Hind wing: the base for about one-third of the wing is white, the remainder orange; on the margin are four black dots, the two exterior having white spots above them; in the middle of the wing are two black lines nearly parallel to hind margin.

Exp. 20 mm.

Hab. Dinawa.

56. *A. PURPUREALIS*, sp. n. (Plate III.)

Head, thorax, and abdomen purplish grey; fore legs pale ringed with dark. Fore wing purplish grey with orange markings; a curved irregular band beginning on the inner margin and joining an orange band along the hind margin which is preceded by a silvery band; nearer the base is a dusky orange patch followed by a crescent of purple and then a long triangular mark of orange. Hind wing purplish grey at base, with a broad median band followed by a darker band, and finally by a narrow orange marginal band in the middle of which are seven silver-studded black spots; fringes paler.

Exp. 25 mm.

Hab. Dinawa.

57. *A. BIPUNCTALIS*, sp. n. (Plate III.)

Head pale brown, thorax and first segment of abdomen dark brown, followed by a slightly paler band; legs pale ringed with dark brown. Fore wing dark brown; with a white streak fading into buff on the inner margin; a white subterminal line followed by an orange band; fringes yellow. Hind wing: basal third white, remainder orange, with a short white band bordered with dark near the angle and a dark line parallel to the first but nearer

to the base of wing; three black dots on the hind margin, two of which have white dots above them.

Exp. 23 mm.

Hab. Dinawa.

58. *PARTHENODES RECTANGULALIS*, sp. n. (Plate IV.)

Head, legs, palpi, and patagia white; thorax black above; antennæ and abdomen dark brown. Fore wing: costa straight, hind margin nearly at right angles for half the width of wing, then slightly oblique to angle of wing; ground-colour white, with black border to hind margin and a parallel transverse narrow band at one-third of wing; from where this meets the inner margin is a narrow oblique red band to base of costa; from the lower end of black line on the hind margin is a double red oblique streak reaching costa and extending to middle of wing, becoming smoky on reaching the inner margin. Hind wing: base and hind margin white, followed by a smoky band, becoming red nearer the body and containing three white specks, slightly angulated. Fringes white.

A very striking species both in form and colour.

Exp. 24-30 mm.

Hab. Ekeikei, Dinawa.

59. *TALANGA TOLUMNIALIS* Wlk.

60. *BRADINA IMPRESALIS* Led.

61. *B. MELANOPERAS* Hmps.

62. *B. GLAUCINALIS* Hmps.

63. *ORPHNOPHANES EUCERALIS* Wlk.

64. *COPTOBASIS MESOPSECTRALIS* Hmps.

65. *DRACÆNURA ALBONIGRALIS* Hmps.

66. *D. HOROCHROA* Meyr.

67. *D. TORRIDALIS*, sp. n. (Plate III.)

Head and thorax fuscous; abdomen and posterior half of patagia pale buff, last three segments of abdomen fuscous; tuft buff; legs and underside white. Fore wing fuscous shot with purple, a dark central spot and a transverse dark mark at end of cell; beyond this is a curved thin dark line; fringes paler. Hind wing yellowish, the extreme hind margin darker, shading gradually into the colour of the wing and almost destitute of fringe in the male.

Exp. 33 mm.

Hab. Kebea.

68. *D. UNICOLORALIS*, sp. n. (Plate IV.)

Vertex of head pale, palpi and thorax dark grey; posterior end of patagia and abdomen pale; tuft black and a thin black

lateral fringe. Fore wing olive-grey shot with purple, a minute black apical dot and fine black dots on hind margin; fringe pale. Hind wing: outer margin as fore wing; internal area straw-colour.

Exp. 36 mm.

Hab. Dinawa, one specimen.

69. *PILETOCERA INCONSPICUALIS*, sp. n. (Plate IV.)

Fore tarsi naked.

Head, legs, antennæ, tarsi, thorax, and abdomen dark brown; tuft whitish orange. Fore wing dark brown with faint purplish tinge; an antemedian, median, and postmedian angulated transverse line darker; a white dot at end of cell and another in the middle of cell, also a faint dot where the postmedian line reaches the costa. Hind wing with two angulated darker lines. Fringes dark with lighter patch at angle of wing.

Exp. 30 mm.

Hab. Kebea.

Subfam. PYRAUSTINÆ.

70. *PYCNARMON JAGUARALIS* Guen.

71. *P. LACTIFERALIS* Wlk.

72. *EUTEPHRIA CRIBRATA* Fabr.

73. *ZINCKENIA FASCIALIS* Cram.

74. *HETEROCNEPHES SCAPULALIS* Led.

75. *REHIMENA PHRYNEALIS* Wlk.

76. *AGROTERA PICTALIS* Warr.

77. *A. FUMOSA* Hmps.

78. *A. EUDOXANTHA* Hmps.

79. *A. FLAVIBASALIS* Hmps.

80. *A. SEMIPICTALIS*, sp. n. (Plate IV.)

Head, thorax, and front of abdomen yellow spotted with orange, last three segments of abdomen purple; tuft orange. Fore wing: basal portion pale yellow flecked with orange, abruptly and obliquely terminated by a patch of rich brown shot with purple occupying the rest of the wing, in the middle of which is a red irregular spot; the costa towards the apex is paler, and there is an obscure darker curved line in the middle of the wing. Hind wing similar to the fore wing, but without the red spot. Fringes conspicuously white with dark interruptions, giving the idea of a scalloped margin.

Exp. 30 mm.

Hab. Dinawa.

81. *PAGYDA PARAPHRAGMA* Meyr.

82. *CNAPHALOCROCIS MEDINALIS* Guen.

83. *MARASMIA FUSIFASCIALIS* Hmpsn.

84. *RHIMPHALEA HERANIALIS* Wlk.

85. *R. SCELATALIS* Led.

86. *R. LINEALIS*, sp. n. (Plate IV.)

Head and thorax golden; palpi, antennæ, and legs brown; patagia darker; abdomen golden, but darker on the margin of each segment; tuft golden. Fore wing whitish with purple gloss and margins edged with gold, with numerous connected streaks and blotches of purplish brown. Hind wing similar, but the chief blotch is at the apex and a secondary blotch at angle. Fringes paler.

Exp. 30 mm.

Hab. Dinawa.

87. *SYNGAMIA FLORIDALIS* Zell.

88. *S. ANPLIATALIS* Led.

89. *S. MARMORATA* Lucas.

90. *BOCCHORIS TELPHUSALIS* Wlk.

91. *B. ADIPALIS* Led.

92. *B. INVERTALIS* Snell.

93. *B. AUROINCTALIS* Hmpsn.

94. *B. EUPHRANORALIS* Wlk.

95. *PILOCROCIS ANIGRUSALIS* Wlk.

96. *P. COPTOBASIS* Hmpsn.

97. *ULOPEZA CRUCIFERALIS*, sp. n. (Plate IV.)

Head, antennæ, legs, and palpi bright ochreous; abdomen same colour in female, but lighter in male; tuft pale. Fore wing ochreous clouded with purple; three equidistant spots on costa are produced in widening angulated bands until they meet a longitudinal band on inner margin; in the middle of the outer band is a projection reaching the hind margin. Hind wing yellow; fringes same colour.

Exp. 26 mm.

Hab. Ekeikei, Mafalu.

98. *NOSOPHORA DISPILALIS* Hmpsn.

99. *N. FULVALIS* Hmpsn.

100. *N. SEMITRITALIS* Led.

101. *N. BARBATA* Hmpsn.

102. *CHALCIDOPTERA EMISSALIS* Wlk.

103. *CAPRINIA FELDERI* Led.

104. *C. CONGLOBATALIS* Wlk.

105. *C. CASTANEALIS*, sp. n. (Plate IV.)

Head, thorax, and abdomen above dark grey, a white band on first segment of abdomen. Fore wing black at base followed by a white band for one-third of wing, this is edged with black and the tip of the wing is also black, between them the space is bright chestnut; on the costa and extending to bottom of cell is a white spot and there is a white dot on the inner margin. Hind wing: basal half white, remainder chestnut; margin broadly darker. Fringes dark.

Exp. 34 mm.

Hab. Ekeikei, Kebea, Mafalu.

106. *C. OCELLALIS*, sp. n. (Plate IV.)

This insect resembles *Rhimphalea trogusalis* Wlk., but differs in the following particulars:—The spot in the cell is developed into a distinct ocellus with white centre, black ring, and yellow space with outer dark line, and it is much more vivid on the under-side; the postmedian line is double with a yellow centre, and there is a distinct parallel subterminal line, the hind margin being yellowish with a dark cloud in the centre.

Sir G. Hampson considers that its right place is in the genus *Caprinia*.

Exp. 27 mm.

Hab. Ekeikei.

107. *FILODES XANTHALIS* Hmps.

108. *TYSPANODES RADIATA*, sp. n. (Plate III.)

Head, thorax, and tuft orange; collar black; legs grey. Fore wing grey with whitish hyaline patches and streaks; a dark spot at base of costa followed by pale orange, then a transverse narrow black band, after this a triangular white patch from costa to inner margin, the nervures 1 and 2 showing on this; beyond is a large irregular white patch, the apex being broadly dark grey; fringe greyish yellow. Hind wing dark with the nervures whitish and an oval white patch beyond the middle; fringe greyer than in the fore wing.

Exp. 44 mm.

Hab. Kebea.

109. *NEVRINA PROCOPIA* Cram.

110. *PHRYGANODES MACULICOSTALIS* Hmps.

111. *P. GLYPHODALIS* Wlk.

112. *P. OBSCURATA* Moore.

113. *P. BASALTICALIS* Led.

114. *P. ODONTOSTICTA* Hmps.

115. *P. MARGARITA* Butl.
116. *DICHOCROCIS XANTHOCYMA* Hmps. n.
117. *D. EVAXALIS* Wlk.
118. *D. PUNCTIFERALIS* Guen.
119. *D. NIGRILINEALIS* Wlk.
120. *D. PARDALIS*, sp. n. (Plate IV.)

Head and palpi orange; legs paler; tarsi with dark rings; antennæ dark; thorax ochreous, spotted with dark brown; abdomen ochreous with darker cloud on back; tuft dark. Fore wing pale ochreous, with narrow dark basal band and two narrow equidistant bands crossing from costa to inner margin where they are wider or branched; a subterminal dark patch which only extends across half the wing. Hind wing ochreous slightly shot with purple, a dark subterminal line and a narrow dark transverse line across half the wing. Fringes golden. All the markings variable.

Exp. 30-40 mm.

Hab. Mafalu.

121. *D. BIMACULALIS*, sp. n. (Plate IV.)

Head, palpi, antennæ, thorax, and abdomen above wainscot-colour; legs and underside pale and shining; patagia extending a little beyond thorax. Fore wing greenish buff; three yellow patches on costa passing into orange and bordered with brown, extending a little below middle of wing, the outer patch is made up of two elliptical yellow dots. Hind wing smoky, tinged with golden and spotted with darker underneath; fringes paler.

Exp. 31 mm.

Hab. Kebea, Dinawa.

122. *NACOLEIA CHARESALIS* Wlk.
123. *GONIORHYNCHUS GRATALIS* Led.
124. *DEBA SURRECTALIS* Wlk.
125. *D. ALTHEALIS* Wlk.
126. *BOTYODES ASIALIS* Guen.
127. *B. FLAVIBASALIS* Moore.
128. *SYLEPTA MULTILINEALIS* Guen.
129. *S. CHROMALIS* Wlk.
130. *S. CHALYBIFASCIA* Hmps. n.
131. *S. DISSIPITALIS* Led.
132. *S. AURANTIACALIS* Fisch.
133. *S. SOLILUCIS* Hmps. n.
134. *S. PERNITESCENS* Swinh.

135. *SYLEPTA OCHRIFUSALIS* Hmps. n.
136. *S. ACRIDENTALIS* Hmps. n.
137. *AGATHODES OSTENSALIS* Geyer.
138. *GLYPHODES PFEIFFERÆ* Led.
139. *G. LATICOSTALIS* Guen.
140. *G. HILARALIS* Wlk.
141. *G. SURALIS* Led.
142. *G. AMPHITRITALIS* Guen.
143. *G. UNIONALIS* Hübn.
144. *G. CELSALIS* Wlk.
145. *G. STOLALIS* Guen.
146. *G. ITYSALIS* Wlk.
147. *G. ZELIMALIS* Wlk.
148. *G. EURYTUSALIS* Wlk.
149. *G. CÆSALIS* Wlk.
150. *G. CANTHUSALIS* Wlk.
151. *G. BICOLOR* Swains.
152. *G. ACTORIONALIS* Wlk.
153. *G. INDICA* Saund.
154. *G. FLAVIZONALIS* Hmps. n.
155. *G. UMBRIA* Hmps. n.
156. *G. AGATHALIS* Wlk.
157. *G. MARGARITARIA* Cram.
158. *G. SUBACUSALIS* Wlk.
159. *G. SECTINOTALIS* Hmps. n.
160. *G. DELICIOSA* Butl.
161. *G. OPHICERALIS* Wlk.
162. *G. GLAUCULALIS* Guen.
163. *G. EXAULA* Meyr.
164. *G. TRICOLORALIS* Pag.
165. *G. ÆGEALIS* Swinh.
166. *G. MARINATA* Fabr.
167. *G. DOLESCHALI* Led.
168. *G. HYPOMELAS* Hmps. n.
169. *G. EURYGANIA* Druce.

170. *G. QUADRISTIGMALIS*, sp. n. (Plate IV.)

Male with antennæ slightly pectinated; female quite simple.

Head, legs, antennæ, and palpi bright ochreous; patagia in male twice the length of the thorax; thorax and body ochreous; tuft black. Fore wing: ground-colour ochreous with slight purple iridescence; three equidistant dark purple bands on the costa are produced until they meet an irregular band of the same colour from inner margin along the middle of the wing; a faintly darker subterminal line. Hind wing divided sharply into three triangular divisions; those on the costa and inner margin ochreous, but the middle one is iridescent and has a darker transverse bar; on the hind margin are three double black dots followed by three single dots all surrounded by metallic scales.

Exp. 32 mm.

Hab. Ekeikei.

171. *G. PUDICALIS*, sp. n. (Plate IV.)

Head, thorax, antennæ, and abdomen pale ochreous above, shining white below; palpi with third joint brown; legs white; sides of tuft black. Fore wing hyaline with golden and purple reflections; a postmedian angulated transverse line and a faint mark at end of cell. Hind wing similar to fore wing. Fringes pale.

Exp. 30 mm.

Hab. Kebea.

172. *G. PAUCILINEALIS*, sp. n. (Plate IV.)

Head, thorax, and abdomen pale with darker longitudinal lines; underside, legs, and palpi paler; antennæ brown. Fore wing crossed by narrow dark bands not parallel and each having a central yellowish line; the third and fourth touch at costa, beyond them is an irregular subterminal line broader at the apex; the spaces between the bands are shining white. Hind wing with only two bands, forming a triangle with apex at angle of wing; a darker mark on hind margin.

Exp. 24 mm.

Hab. Dinawa.

173. *G. MULTILINEALIS*, sp. n. (Plate IV.)

Very much like the above, but the bands are so much wider that the space left for the white ground-colour is so much reduced as to suggest a dark wing crossed by numerous white lines which are not parallel. The details can be better shown in a figure than described.

Exp. 31 mm.

Hab. Dinawa, Ekeikei.

174. *G. PERSPICUALIS*, sp. n. (Plate IV.)

Head, top of thorax, and abdomen chestnut; patagia, sides of abdomen, and underside pure white; tuft black. Fore wing

golden chestnut, with hyaline white blotches surrounded by darker lines; a basal triangular spot; an antemedian oval spot; a postmedian ovate spot, three small dots between these two; an apical spot with a line of dots below reaching to inner margin; two half spots along inner margin; fringes brown, white at angle. Hind wing hyaline with marginal dark band intersected by row of chestnut spots; fringes brown, spotted with white.

Exp. 32 mm.

Hab. Dinawa.

175. *G. EXQUISITALIS*, sp. n. (Plate IV.)

Head, palpi, and thorax brown; abdomen in the male grey, in the female yellow; tuft black. Fore wing chestnut faintly shot with blue and purple; the spots hyaline and yellowish in the male but white in the female; a streak from costa at base sloping to middle of wing in hind margin; an antemedian triangular costal spot with long tapering end; a broad postmedian costal spot extending almost to hind margin, with a darker outside margin and slight projection into the spot from outside; two very faint purple, parallel, subterminal lines; fringes golden. Hind wing pale straw-colour; in the middle of the hind margin are a few black dots set in bright golden scales; fringes golden. In the male the hind wing is dark grey and the fore wing darker.

Exp. 32 mm.

Hab. Kebea.

176. *G. BRUNNEOMARGINALIS*, sp. n. (Plate IV.)

Head, thorax, and palpi green; antennæ dark; abdomen green, but silvery beneath. Fore wing apple-green with yellowish costa and margins; one black dot at end of cell and one in the middle. Hind wing green, one large black dot at end of cell, margins having a scorched appearance fading into white nearer the body. Fringes smoky, but inclined to chestnut at angle.

Exp. 32 mm.

Hab. Kebea.

177. *G. LACERITALIS*, sp. n. (Plate IV.)

Head, thorax, and palpi apple-green; antennæ and last joint of palpi brown; legs white, but tibiæ of fore legs with brown hairs; abdomen green above, white at sides and bluish white beneath; tuft black with white centre. Fore wing apple-green; hind margin distinctly and irregularly scalloped, edged with brown as if scorched; one black dot in middle and one at end of cell. Hind wing apple-green, scalloped and scorched like fore wing; one black dot at end of cell; inner margin white and hyaline with fringe of same; other fringes brown.

Exp. 44 mm.

Hab. Ekeikei, Kebea, Dinawa, Mafalu.

178. *Pygospila bivitalis* Wlk.

179. *P. marginalis*, sp. n. (Plate IV.)

Head purplish grey; palpi, thorax, and abdomen dark grey above, shining white below; legs white; patagia grey shot with purple. Fore wing grey shot with purple; a white patch on vein below costa at two-thirds length of wing from base, 2 mm. wide, ending in three white dots towards inner margin; a second white patch between base and first patch; between this and angle of wing two smaller patches and one still smaller on inner margin; fringes grey. Hind wing dark grey shot with purple, discal portion semitransparent with central spot and serrated dark band; fringes white.

Exp. 45 mm.

Hab. Mafalu.

180. *P. imperialis*, sp. n. (Plate IV.)

Head, thorax, and abdomen grey, striped with white; palpi black, first and second joints white; underside white. Fore wing dark grey shot with rich purple; a round white spot near base surrounded by four white dots; two median, two postmedian, and two smaller anteterminal white blotches. Hind wing: ground-colour as fore wing, one long triangular basal blotch, five other blotches on disc. Fringes dark, flecked with white at angle of wing.

Exp. 36 mm.

Hab. Ekeikei, Kebea.

181. *Heortia vitessoides* Moore.

182. *H. dominalis* Led.

183. *Polythlipta macralis* Moore.

184. *P. divaricata* Moore.

185. *Lepyrodes perspicata* Fabr.

186. *Metræa nebulalis* Wlk.

187. *Leucinodes apicalis* Hmps.

188. *Saneodes tristalis*, sp. n. (Plate IV.)

Head, legs, antennæ, and palpi very dark grey; thorax slightly paler; abdomen with first three segments paler. Fore wing dark grey with a V-shaped white transverse mark having its apex on the inner margin; near the outer margin of this mark is a thin angulated dark line. Hind wing dark with irregular transverse paler band; fringes dark, spotted with white.

Exp. 24 mm.

Hab. Dinawa.

189. *Meroctena stantoni* Led.

190. *Thliptoceras octoguttale* Feld.

191. *ARCHERNIS CALLIXANTHA* Meyr.
192. *A. EUCOSMA* Turner.
193. *A. IGNEALIS* Wlk.
194. *ISOCENTRIS MINIOSALIS* Guen.
195. *I. MINIALIS* Warr.
196. *MARUCA TESTULALIS* Geyr.
197. *PACHYNOA THOOSALIS* Wlk.
198. *P. SPILOSOMOIDES* Moore.
199. *PACHYZANCLA DESMIOIDES* Hmps. n.
200. *P. PALLIDALIS* Hmps. n.
201. *PROEDEMA INSCISALIS* Wlk.
202. *BEOTARCHA HYALINALIS* Hmps. n.
203. *B. LIMBATA* Butl.
204. *CALAMACHROUS TRANQUILALIS* Led.
205. *C. ALBIPUNCTALIS*, sp. n. (Plate IV.)

Palpi dark purplish brown; head orange; thorax and patagia purplish brown; abdomen above fuscous; thorax and abdomen below, legs and underside of palpi white. Fore wing dark purplish brown, with a subtriangular patch from the middle of the costa to middle of the wing orange, paler inside and with a minute orange dot in the middle; hind margin broadly orange with a row of subterminal dots. Hind wing white on costa, the middle of the wing occupied by a triangular purplish patch, the apex reaching the base of the wing; between this and the inner margin is white; the hind margin broadly orange and fringe orange; in the centre of the patch are two minute white dots edged with dark.

Exp. 44 mm.

Hab. Dinawa.

206. *PIONEA ABLACTALIS* Wlk.
207. *P. NYPSIUSALIS* Wlk.
208. *P. ALBIFIMBRIALIS* Wlk.
209. *P. BRACTEALIS*, sp. n. (Plate IV.)

Head, thorax, abdomen, and legs pale ochreous, inclining to reddish above but shining white below, very noticeable on tibia; palpi with third joint chestnut. Fore wing golden yellow; costa margined with reddish; five equidistant, thin, angulated, somewhat interrupted transverse lines. Hind wing the same, with three faint lines. Fringes pale.

Exp. 30 mm.

Hab. Dinawa, Ekeikei.

210. *PYRAUSTA CELATALIS* Wlk.
 211. *P. ERIOPISALIS* Wlk.
 212. *P. CEADESALIS* Wlk.
 213. *P. TRITICALIS*, sp. n. (Plate III.)

Head and thorax orange; patagia darker; abdomen paler with chestnut markings along the crest; palpi and antennæ dark brown; underside and legs whitish; tarsi ringed with darker. Fore wing orange with dark margin on the costa, dark nervures, and the cell margined with darker; an oblique line, dark brown, passes through the cell and reaches the hind margin; a second oblique dark line reaches from the middle of the hind margin to near the apex. Hind wing straw-colour, margined with darker. Fringes smoky with white edges.

Exp. 26 mm.

Hab. Dinawa.

214. *POLYGRAMMODES GROSSALIS* Guen.
 215. *P. PURPURALIS* Wlk.
 216. *OMPHISA INGENS* Hmps. n.

In concluding this list I desire to tender my most hearty thanks to all those who have assisted in determining the species and especially to Sir G. Hampson, Col. Swinhoe, and Dr. Dixey, who kindly allowed me to see the Walker types in the Hope Museum at Oxford.

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